FIGURE 1A
(Prior Art)

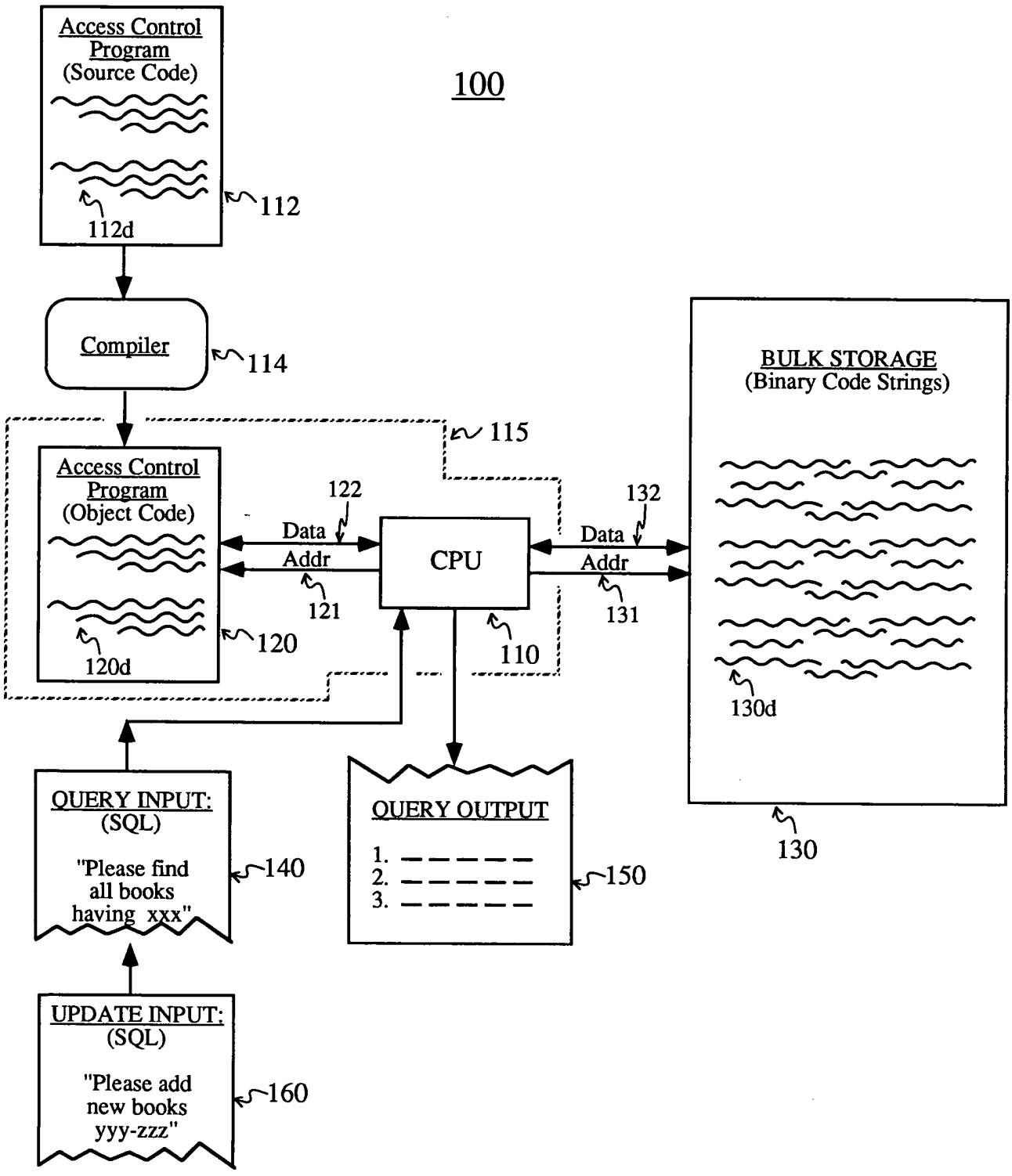

FIGURE 1B

(Prior Art)

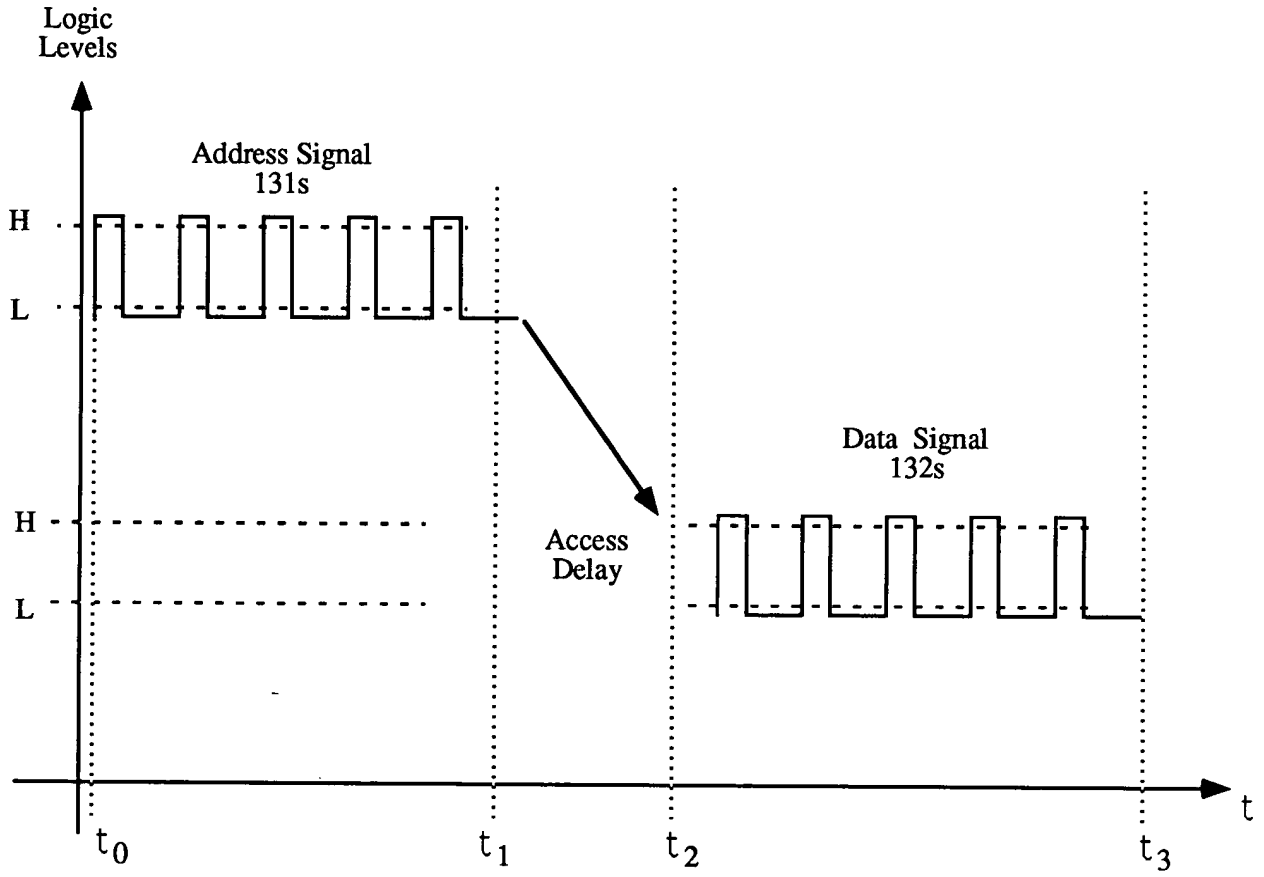

FIGURE 2A
(Prior Art)

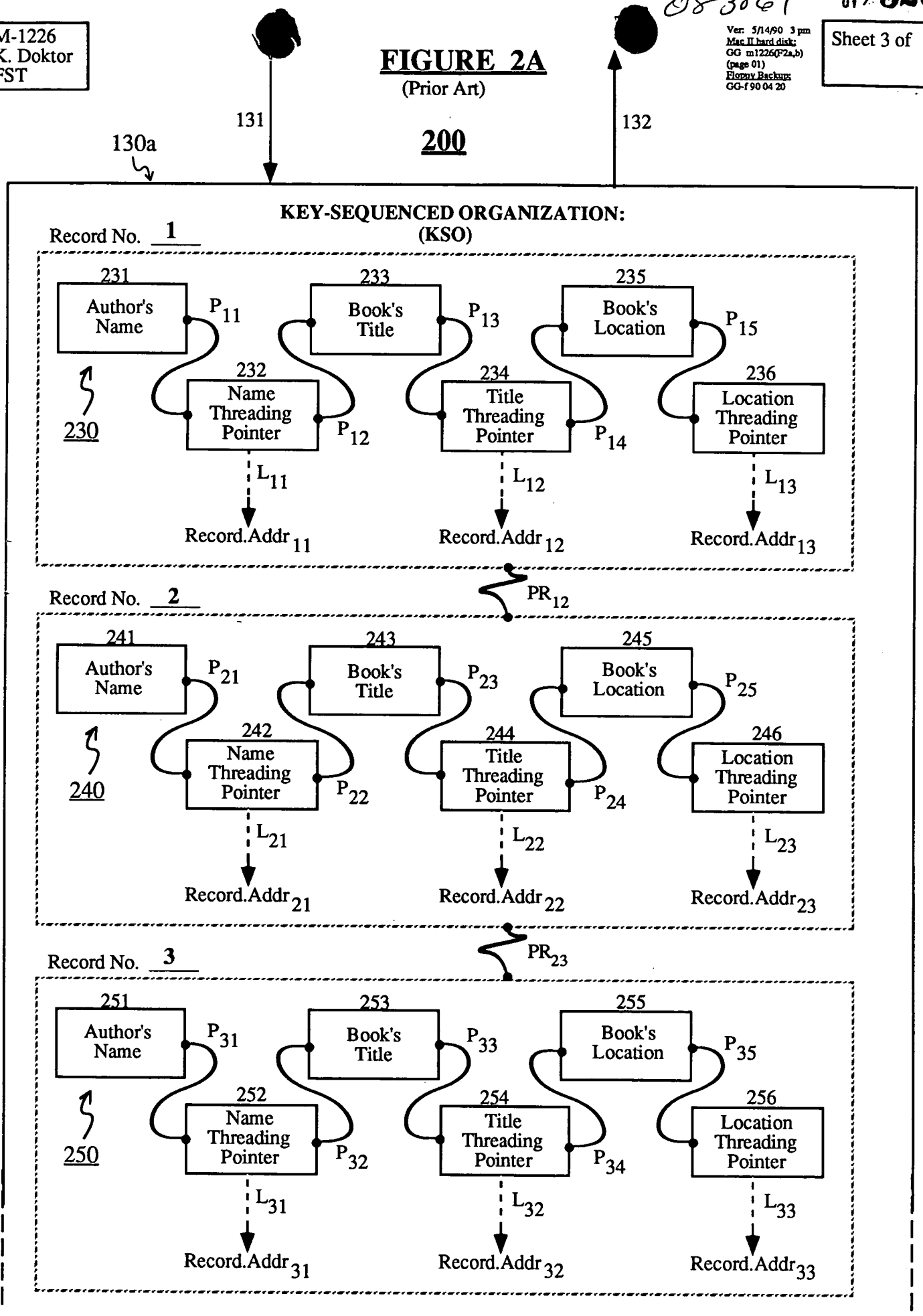

FIGURE 2B
(Prior Art)

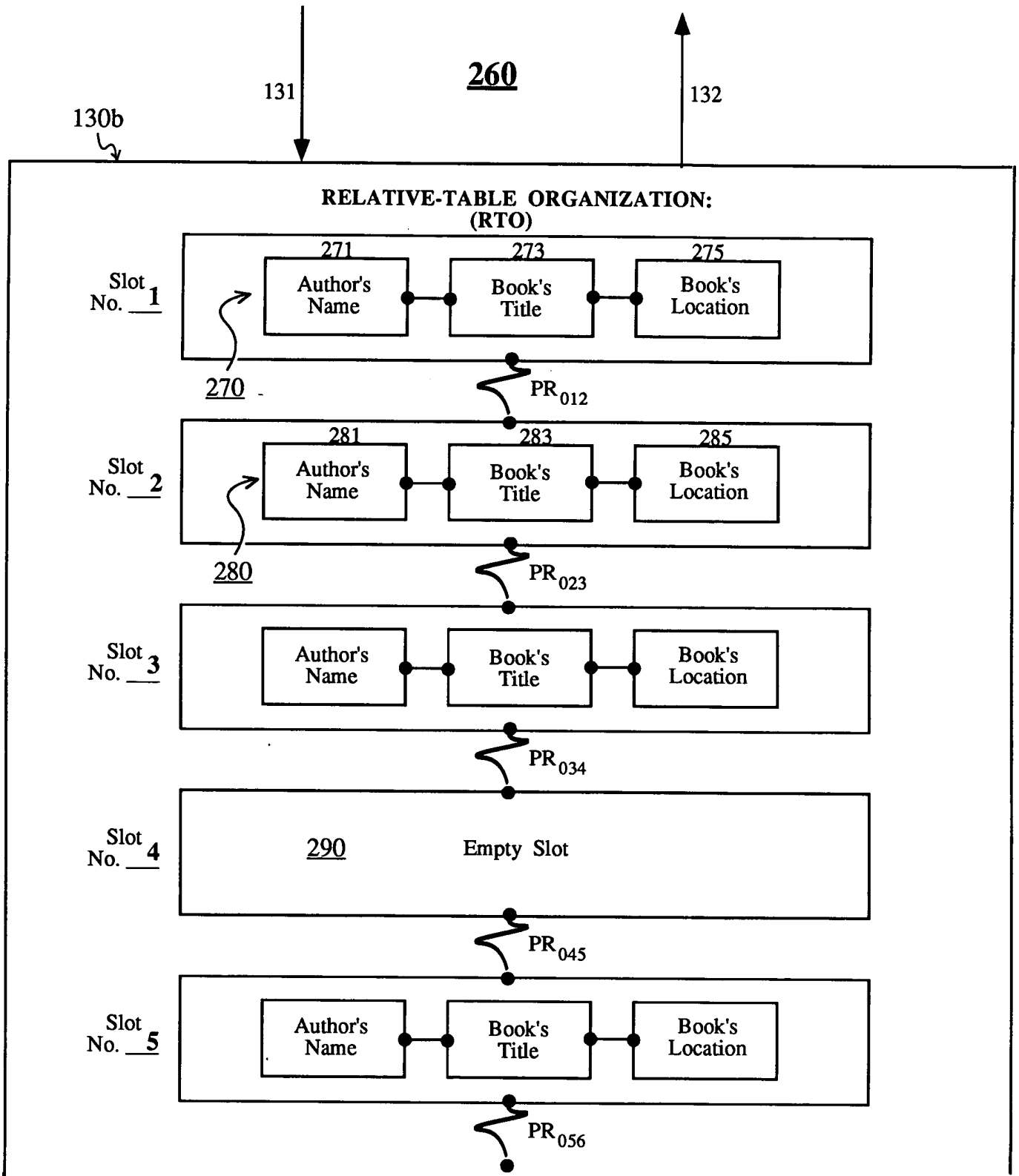

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FIGURE 3
(Prior Art)

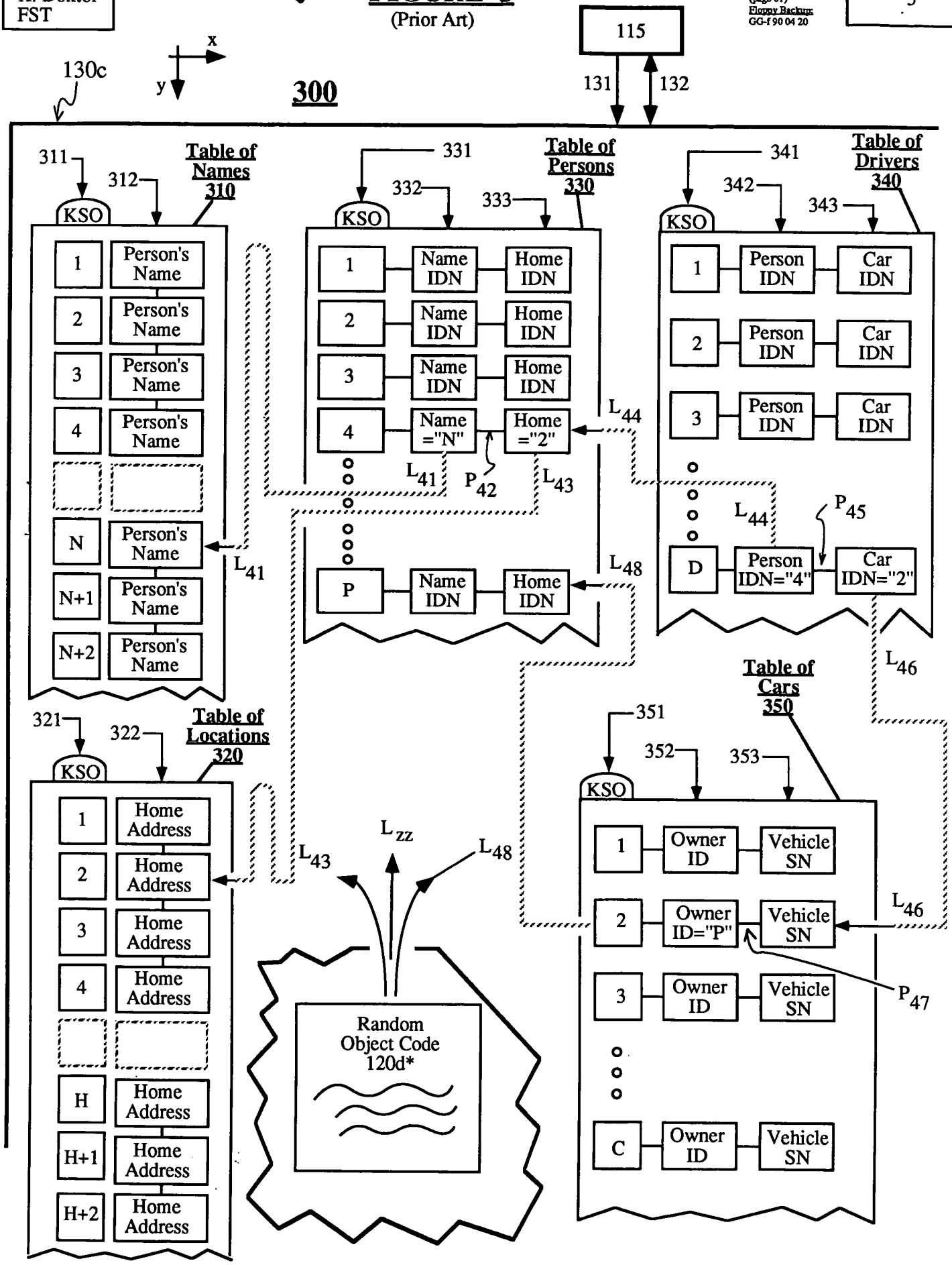

FIGURE 4A

400

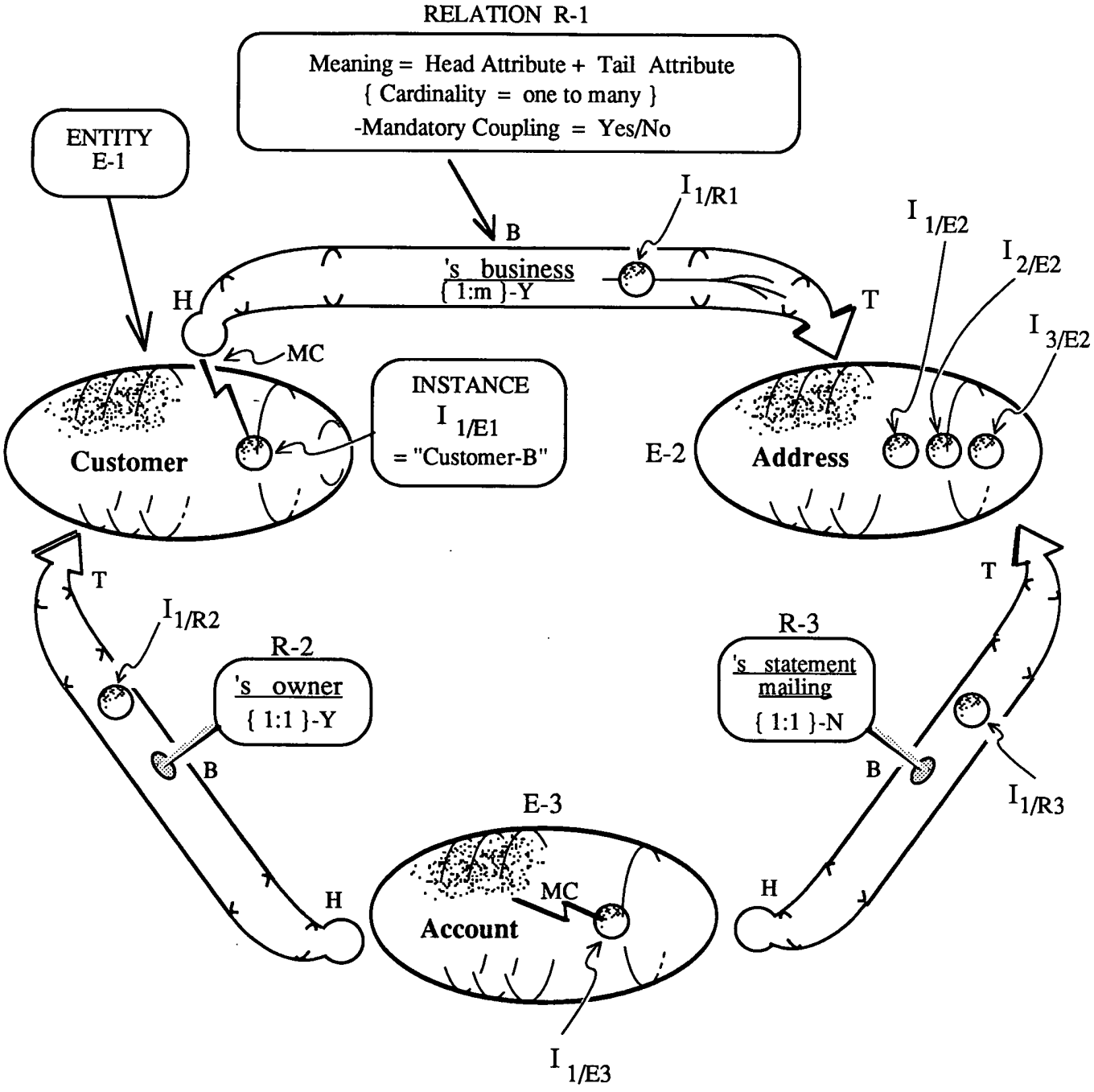

FIGURE 4B

450

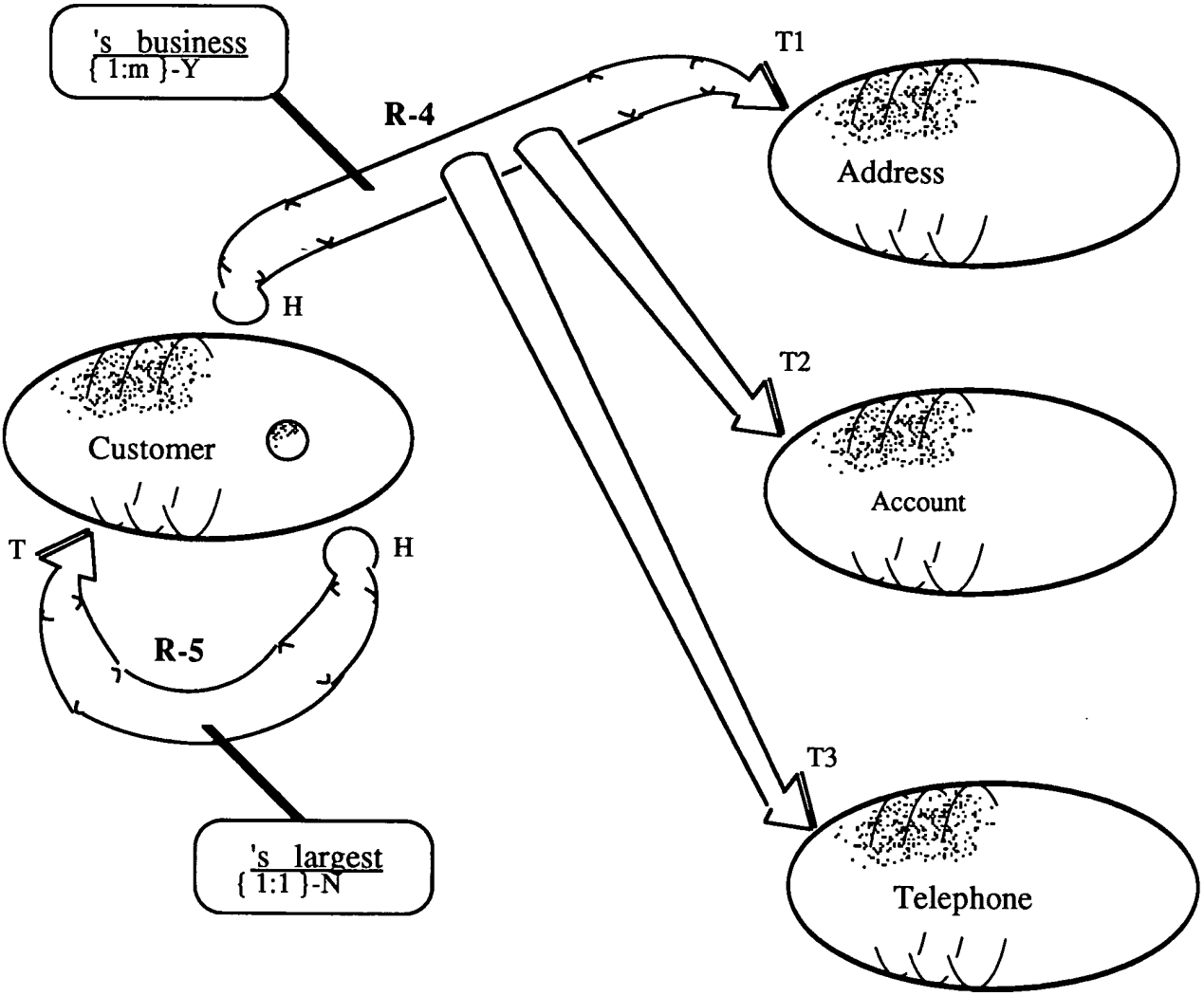

FIGURE 5

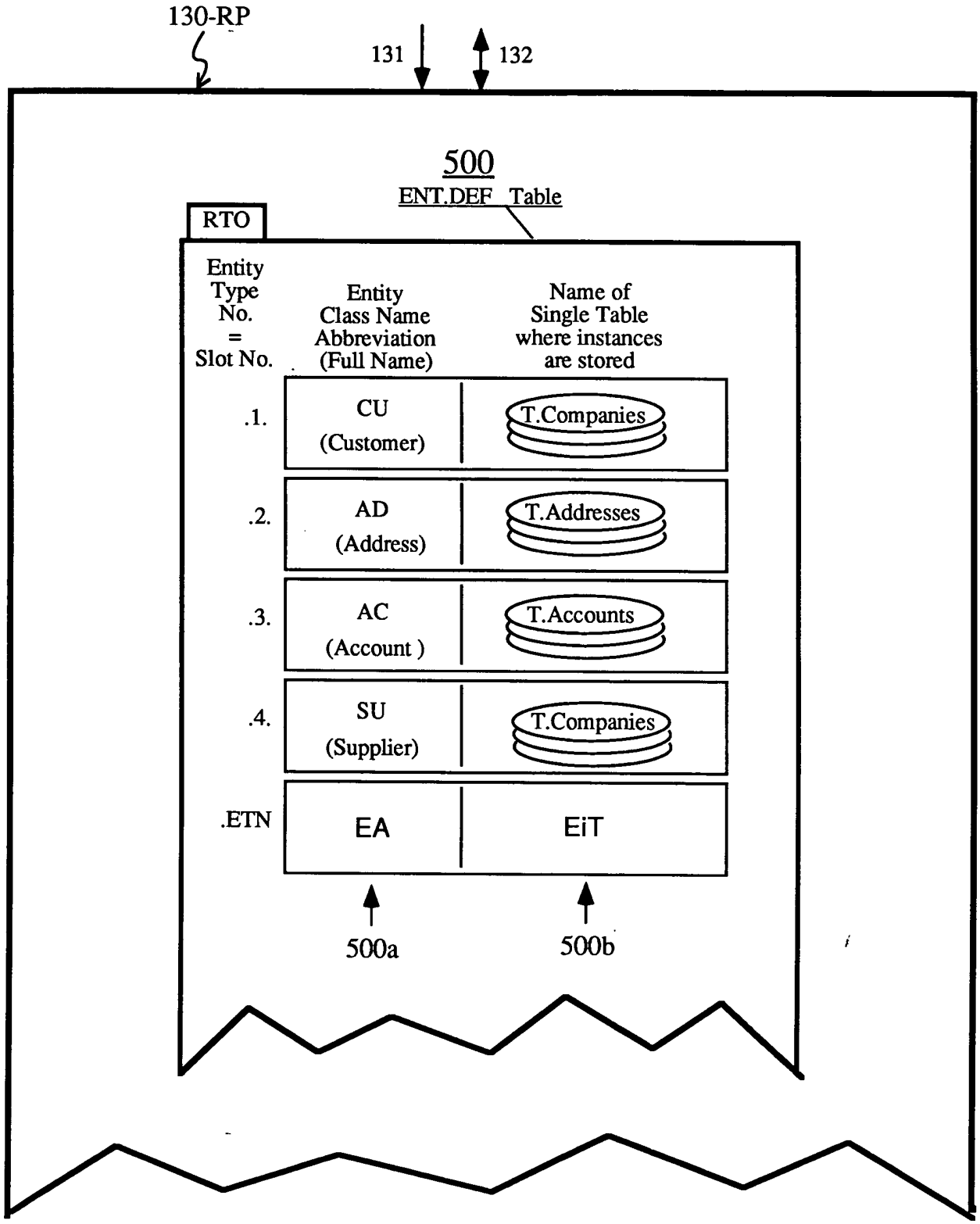
130-RP
131
132
500
ENT.DEF Table
RTO
Entity Type No. = Slot No.
Entity Class Name Abbreviation (Full Name)
Name of Single Table where instances are stored
.1.
CU
(Customer)
T.Companies
.2.
AD
(Address)
T.Addresses
.3.
AC
(Account)
T.Accounts
.4.
SU
(Supplier)
T.Companies
.ETN
EA
EiT
500a
500b

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FIGURE 6A

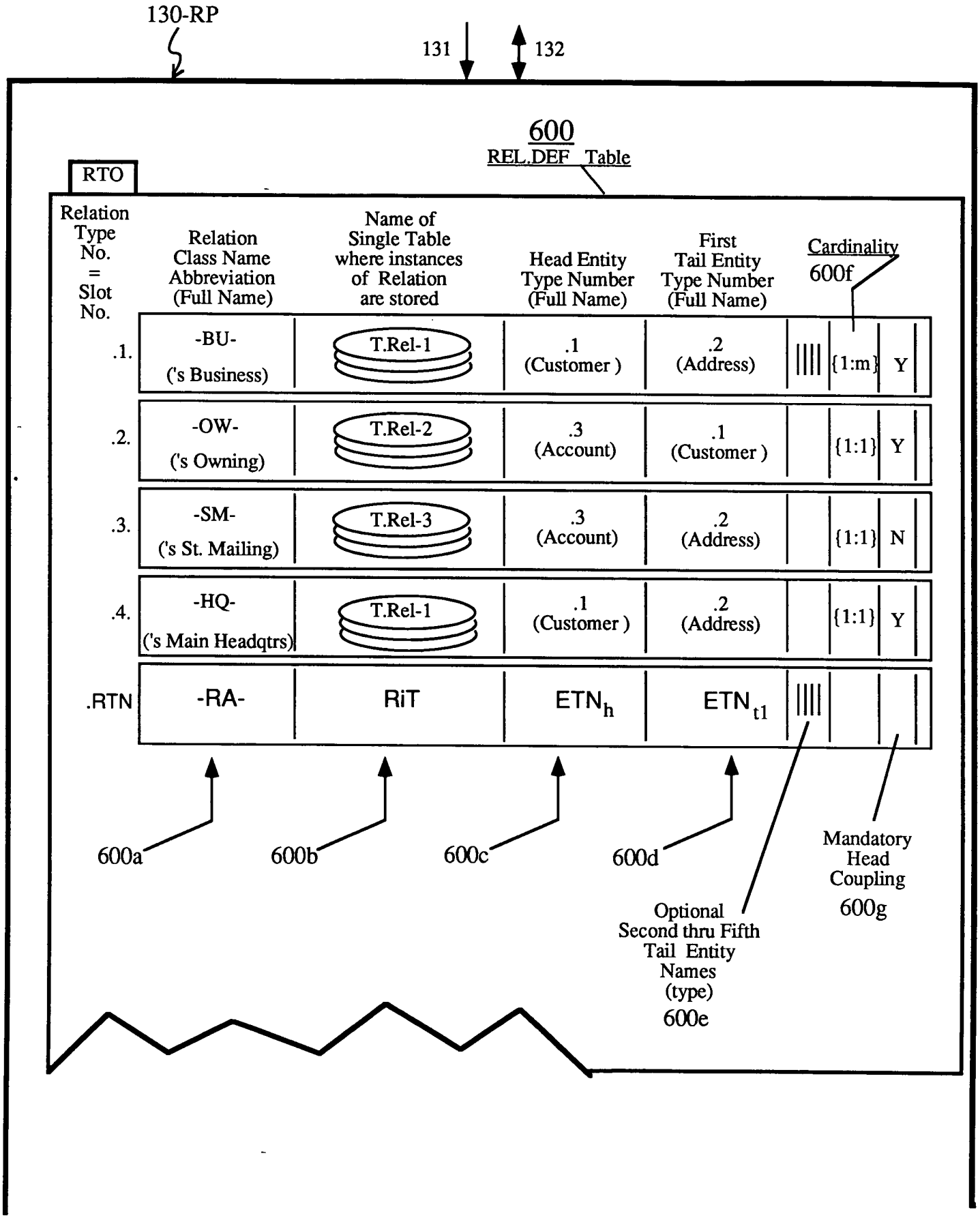

FIGURE 6B

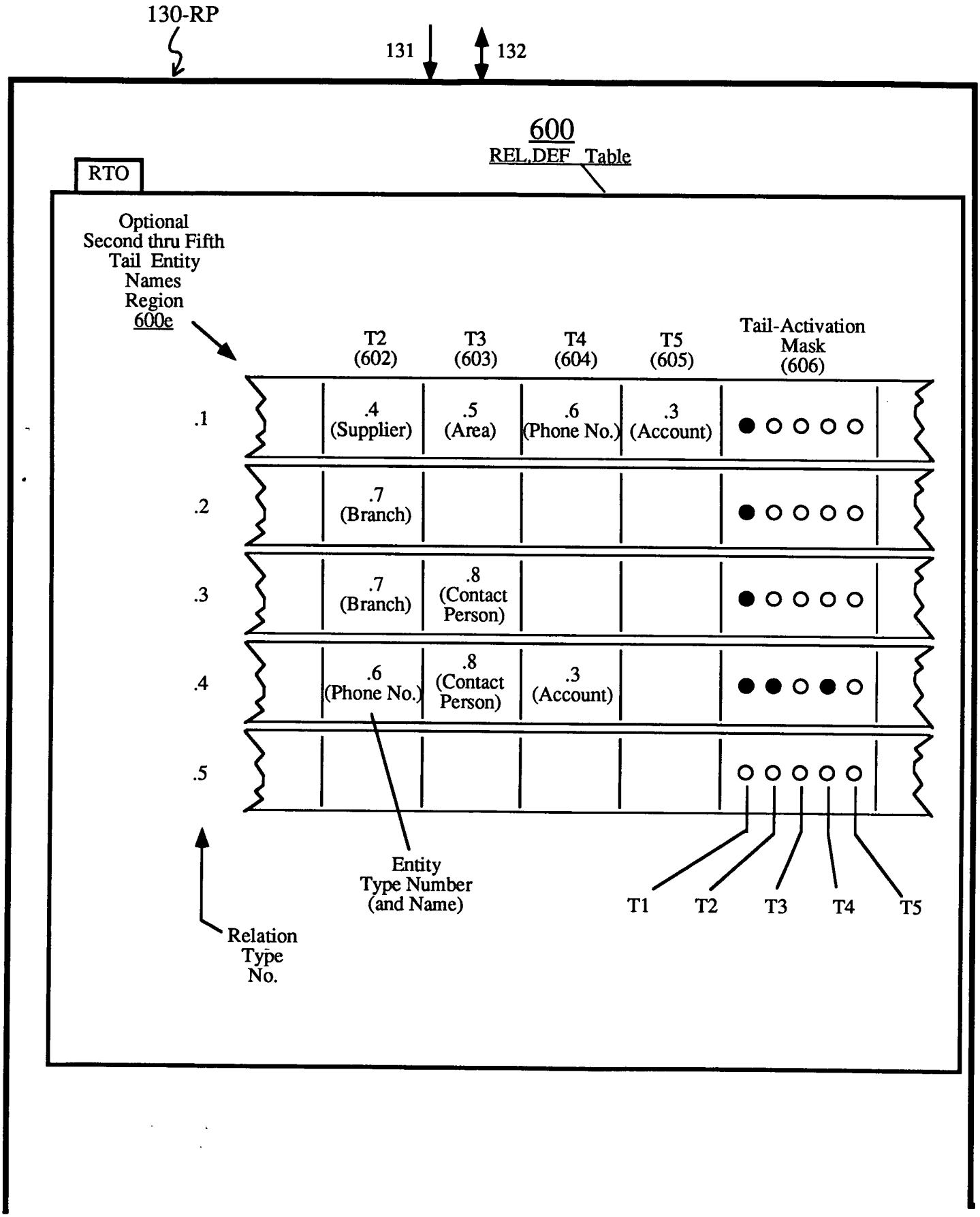
130-RP
131
132
600
REL.DEF Table
RTO
Optional
Second thru Fifth
Tail Entity
Names
Region
600e
T2
(602)
T3
(603)
T4
(604)
T5
(605)
Tail-Activation
Mask
(606)
.1
.4
(Supplier)
.5
(Area)
.6
(Phone No.)
.3
(Account)
.2
.7
(Branch)
.3
.7
(Branch)
.8
(Contact
Person)
.4
.6
(Phone No.)
.8
(Contact
Person)
.3
(Account)
.5
Entity
Type Number
(and Name)
Relation
Type
No.
T1
T2
T3
T4
T5

FIGURE 7

700

130-RP

815

131 132

740

REQUEST
for:
(a) Search
(b) Inquiry
(c) Update
(d) Restructure
-Schema

Involving
the relationship:
-BU-

780

600

RTO REL.DEF KSO

	a	b
.1.	-BU-	T.Rel-1
.2.	-OW-	
.3.	-SM-	

L746

INQ.DEF

	-Entity- a	b	-Relation- c	d	Level e
.1	ETN	EiN	RTN	RiN	L
.2	??	?	-HQ-	?	1
.3	AD	.4	-BU-	?	1
.4	??	?	-OW-	?	2

L736

L744

L743

RTO KSO

T.REL-1

RiN

RiT
730

	Head Ei a	b	Rel. Type c	Tail(1) Ei d	e
.1	CU	.2	-BU-	AD	.1
.2	CU	.5	-BU-	AD	.4
.3	CU	.1	-BU-	AD	.3
.4	CU	.4	-BU-	AD	.2
.5	CU	.5	-BU-	AD	.5
.6	CU	.5	-HQ-	AD	.4

ETN_h RTN ETN_t

L731

L733

500.1 KSO
ENT.DEF

	a	b
1.	CU	T.Companies

500.2 KSO
ENT.DEF

	a	b
2.	AD	T.Addresses

L751

L752

EiT-1=
T.Companies
710

EiT-2=
T.Addresses
720

RTO KSO

EiN_t

EiN_h

RTO KSO

.1	Allen's Automobiles
.2	Bob's Books Inc.
.3	Computer Center Ltd.
.4	Dr. Dogood P.C.
.5	Expert Electronics
.6	Fred's Furniture
.EiN	Ei

a

L732

L734

L744

.1	220 Literature Street
.2	445 Medical Plaza
.3	106 Car Corner
.4	555 Transistor Lane
.5	386 Business Machine Dr.
.6	1000 Office Plaza
.EiN	Ei

a

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FIGURE 8

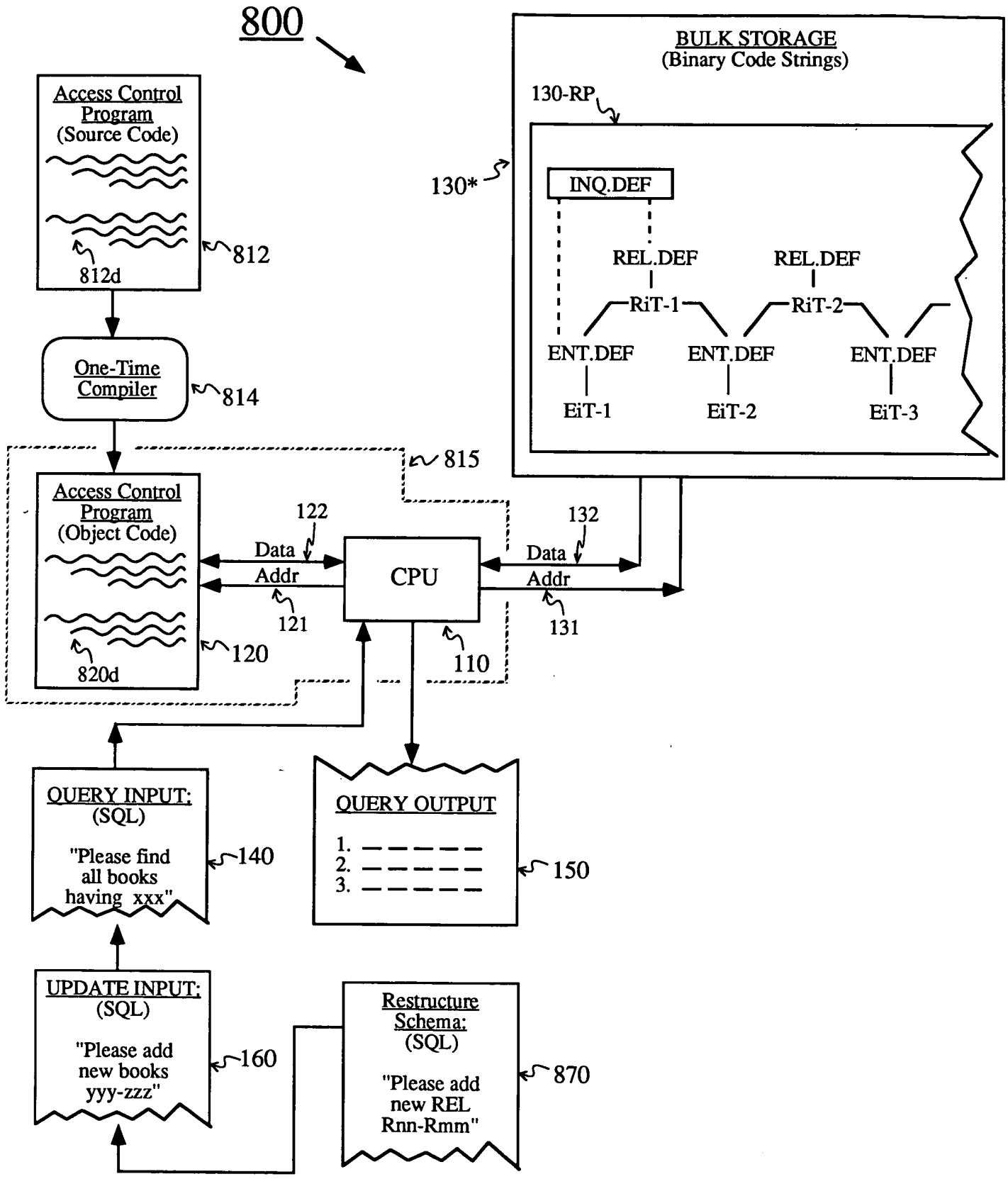

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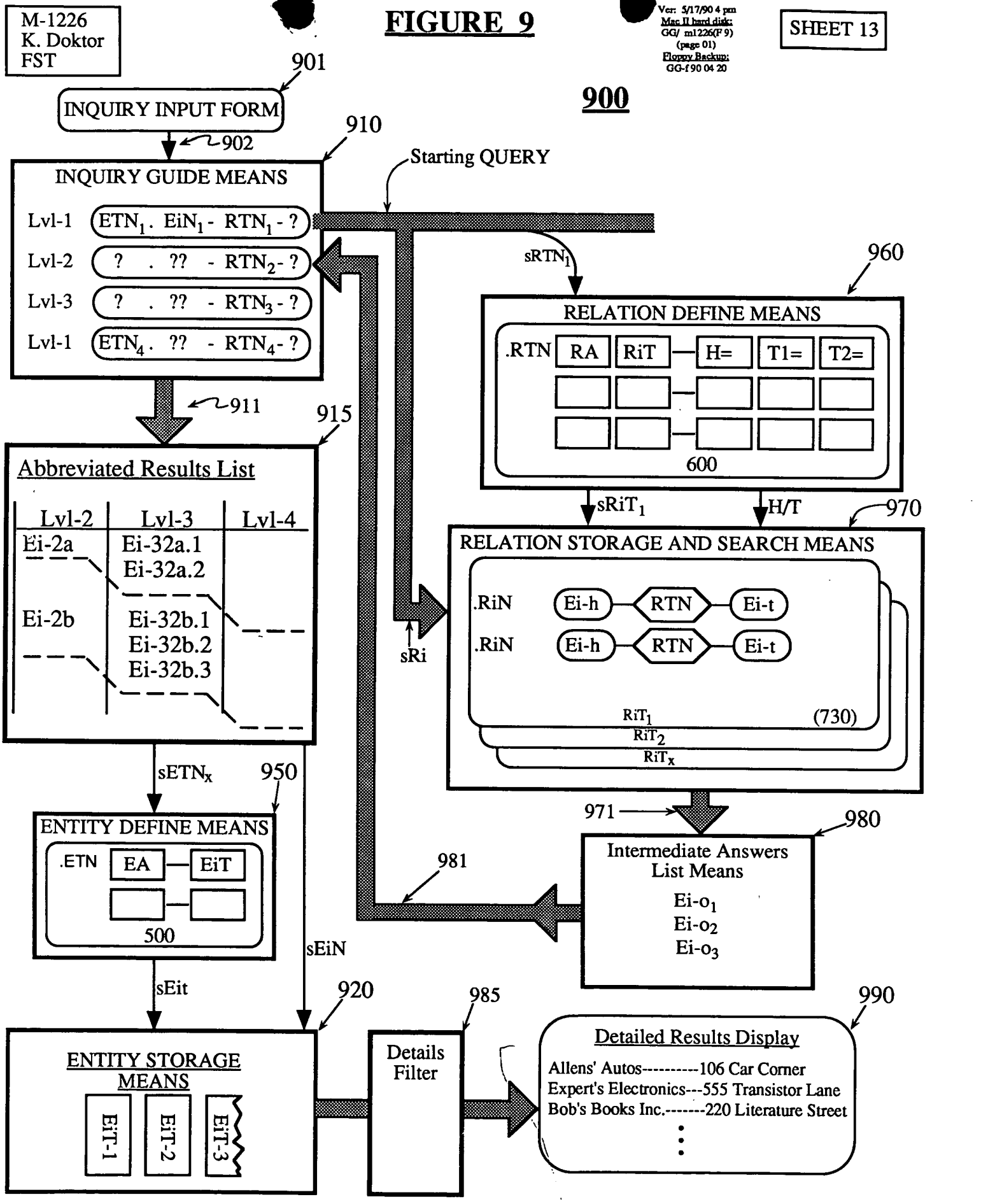
FIGURE 9

Ver: 5/17/90 4 pm
Mac II hard disk:
GG/ m1226(F 9)
(page 01)
Floppy Backup:
GG-f 90 04 20



08384/#526424

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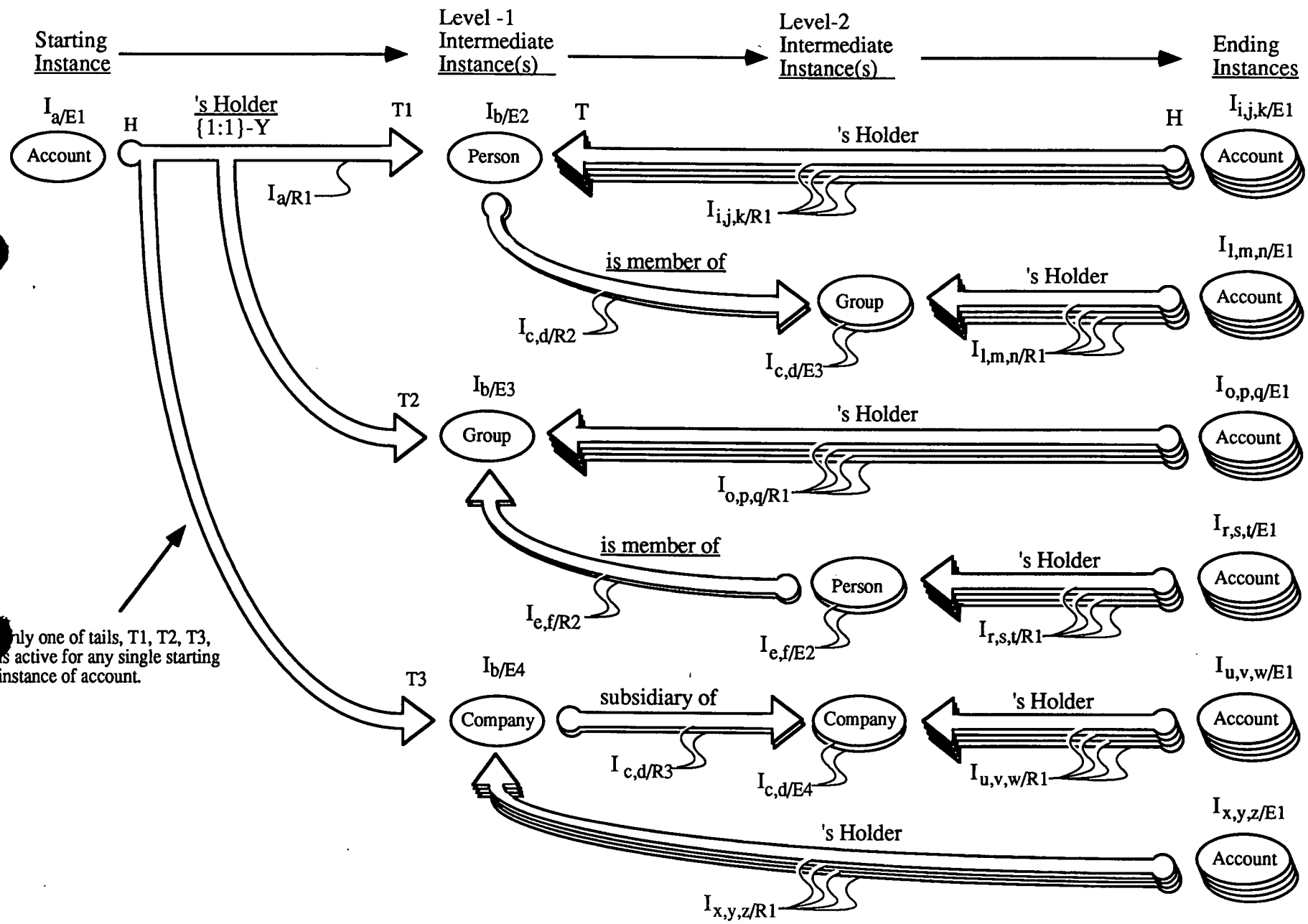
FIGURE 10

Ver: 5/10/90 11am
Mac SE hard disk:
SPW/ m1226(F10)
Floppy Backup:
sw-f-90.10.05

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